

Abstract of the Disclosure

5 A helicopter has a power unit supported on an arch
support member above an airframe. The power unit may
be moved forward and rearward by a trim actuator to
trim the helicopter and tilted about pitch and roll axes by
control actuators for directional control. The control
actuators may form a parallelogram linkage with the
arms of the arch support member. Each control actuator
10 may comprise a hydraulic cylinder having two cavities
and a pair of pistons which further divide each cavity into
a pair of volumes. The arch support member and landing
gear assemblies may connect to transversely extending
struts. The landing gear assemblies may be designed to
15 progressively deform in case of a high impact landing.